



## International Congress 4

### "Estuaries & Coastal Protected Areas"

Izmir – Turkey, 04 - 06 November 2014

### *Certificate of Participation*

**Dr. Mohammad MUSTAFIZUR RAHMAN**, from the Institute of Oceanography and Maritime Studies, International Islamic University Kuantan-MALAYSIA, has participated to the ECPA international congress and presented an oral communication titled: "**GROWTH, CONDITION FACTOR, GONADOSOMATIC INDEX AND SPAWNING OF YELLOWTAIL SCAD (*Atule mate*) IN THE COASTAL WATERS OF PAHANG, MALAYSIA**" during the plenary session.

**Prof. Dr. Erdeniz OZEL**  
Director of the Institute of  
Marine Sciences & Technology

**Prof. Dr. A. CHOUIKHI**  
Executive Director of Inter Islamic Marine  
Science & Technology Network on Oceanography





*International Congress On*  
**“Estuaries & Coastal Protected Areas”**

**Estuaires et Aires Marines Côtières Protégées**

Dokuz Eylül University Sabancı Kültür Merkezi  
Izmir-TURKEY

**04 - 06 November 2014**

**PROGRAMME**



**INOC- September 2014**





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## International Congress

On

## "Estuaries & Coastal Protected Areas "

ECPA 2014

04 - 06 November 2014

Dokuz Eylül Üniversitesi Sabancı Kültür Merkezi  
İzmir - Turkey

## Provisional Programme

Tuesday, 04 November 2014

Time		Title
10:00	10:30	<b>Opening Session</b> Room A
		<p>Welcome:</p> <p>Prof. Dr. Abdelouahab CHOUIKHI, Executive of INOC</p> <p>Prof. Dr. Orhan USLU, President of INOC</p> <p>Prof. Dr. Erdeniz ÖZEL Director of Marine Sciences and Technology Institute, Dokuz Eylul University</p> <p>Prof. Dr. Mostefa BELHAKEM, Rector of Abdelhamid Ibn Badis University, Mostaganem-ALGERIA</p> <p>Prof. Dr. Mehmet FÜZÜN, Rector of Dokuz Eylul University, İzmir-TURKEY</p> <p>Dr. Ali MAHESAR, COMSTECH, Islamabad-PAKISTAN</p>
10:30	10:50	Chloë WEBSTER-MedPAN-France
		THE CURRENT SYSTEM OF MARINE PROTECTED AREAS (MPAS) IN THE MEDITERRANEAN – STATE OF THE ART AND CHALLENGES.
10:50	11:10	Coffee Break

15:50	16:10	COFFEE BREAK	
16:10	16:30	Djamila IDER  FIRST DESCRIPTION OF <i>Argulus vittatus</i> (Rafinesque-Smaltz, 1814) PRE-ADULT STAGE PARASITIZING SPARIDAE OF THE GULF OF BEJAIA.	Abderrahmane BOUDA  RISK ASSESSMENT OF THE INTRODUCTION OF INVASIVE SPECIES BY SHIP BALLASTWATER AT THE ARZEW BAY
16:30	16:50	EL MIMOUNI A.  THE ROLE OF ESTUARIES IN THE MORPHOSEDIMENTARY DYNAMIC BALANCES OF THE ANTHROPIZED COASTLINE IN ARID/SEMI-ARID AREAS: THE EVENT OF WADI KSOB ESTUARY, ESSAOUIRA, MOROCCO.	LAMRI NACEF  CLIMATE CHANGE AND STORMINESS IN THE ALGERIAN COASTAL ZONES: A SPATIO-TEMPORAL SCALE INTERACTION APPROACH
16:50	18:00	<b>POSTERS PRESENTATION</b>  <b>3. Environmental impacts: coastal hazards</b>  Prof. Dr. Abdelouahab CHOUIKHI	
<b>Thursday 06 November 2014</b>			
Session  5	1. Coastal ecosystems: understanding the physical & biological complexity of coastal environments.  Room A Chair: Dr. Med Kamil Bin ABDUL RASHID -Malaysia Rapporteur : Dr. Harun GÜÇLÜSOY-Turkey		
09:30	09:50	Ali KHOSH KHOLGH  EFFECTS OF BAROCLINIC TERMS IN COHESIVE SEDIMENT TRANSPORT PATTERN AT A SCHEMATIC ESTUARY	



09:50	10:10	Wahiba BOUDRAA ORNITHOLOGICAL VALUE OF PERI-URBAIN WETLANDS IN ALGERIA (CASE MARSH BOUSSEDRA, NORTH –EAST OF ALGERIA).
10:10	10:30	Md MUSTAFIZUR RAHMAN GROWTH, CONDITION FACTOR, GONADOSOMATIC INDEX AND SPAWNING OF YELLOWTAIL SCAD ( <i>Atule mate</i> ) IN THE COASTAL WATERS OF PAHANG, MALAYSIA
10:30	10:50	Fouzia HOUMA DEVELOPMENT OF METHODS FOR MONITORING OF CHLOROPHYLL-A AND WATER COLOR OF COASTAL ZONES.
10:50	11:10	Coffee Break
11:10	11:30	Khosrow AEIN JAMSHID COMMUNITY STRUCTURE OF BLOOMER PHYTOPLANKTONS AROUND THE SHRIMP CULTURE SITES IN BUSHEHR PROVINCE COASTAL, IN PERSIAN GULF.
11:30	11:50	Ahmed KERFOUF BIODIVERSITY OF ECHINODERMS OF ORAN COASTS (NORTH WESTERN ALGERIA).
11:30	11:50	Lamy CHAOUI LARGE-SCALE TO LOCAL GENETIC STRUCTURING OF THE YELLOW GORGONIAN <i>Eunicella cavolini</i> IN THE MEDITERRANEAN SEA: INSIGHTS ON RECOLONIZATION ABILITY.
11:50	12:10	Kamel HARCHOUCHE DYNAMIC ANALYSIS OF THE STATE OF A FISH STOCK CENTRACANTHIDAE ( <i>Spicara maena</i> , Linnaeus, 1758) IN THE CENTRAL REGION OF ALGERIA.
12:10	14:00	LUNCH
14:00	14:20	Fahima FELLAH PRELIMINARY INVENTORY OF THE MARINE ALGAE IN TISKERTH ISLAND (WEST COAST OF BEJAIA-ALGERIA).



# **“Estuaries & Coastal Protected Areas”**

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## **ABSTRACTS BOOK**



**INOC- September 2014**





# "Estuaries & Coastal Protected Areas "

ECPA 2014

04 - 06 November 2014, Izmir – TURKEY

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## GROWTH, CONDITION FACTOR, GONADOSOMATIC INDEX AND SPAWNING OF YELLOWTAIL SCAD (*Atule mate*) IN THE COASTAL WATERS OF PAHANG, MALAYSIA

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### Abstract

Yellowtail scad (*Atule mate*) is an economically important food fish in Malaysia but the capture production of this fish is decreasing rapidly in the Malaysian water. In 2006, the total capture production was 24,785 tons, while in 2011, it was 22,682 tons. The total capture production of yellowtail scad has been decreased by about 2000 tons (8%) in 5 years. Unfortunately, there is no initiative and regulation concerning the management of fish species. However, proper management of wild stock is urgently needed to obtain sustainable production of this fish. Before applying any management policies and techniques on any wild fish stock, information on some important characteristics such as growth, condition factor, and spawning are prerequisite. Unfortunately, such information for yellowtail scad in Malaysian coastal water is lacking. Therefore, a study was conducted to understand the growth, condition factor, gonadosomatic index and spawning of yellowtail scad in the coastal waters of Pahang, Malaysia. For this research, a total of 1475 specimens were collected from Kompleks Lembaga Kemajuan Ikan Malaysia (LKIM) from October 2012 to May 2013. The regression analysis of length and weight showed isometric growth ( $b = 3$ ) for all months except January (2.7024) and March (3.2209). The calculated mean condition factor ranged from 1.100 - 1.266, with a mean value of  $1.150 \pm 0.053$ . The highest mean condition factor value was observed in November (1.266) and the lowest was observed in October (1.100). The gonadosomatic index was at its peak in April (2.43%) and lowest in October (0.02%). Based on the observed GSI of male and female yellowtail scad, spawning season of this fish in the Pahang Coastal water might be March to May. However, more complete study is still needed to confirm this result. There was no relationship between condition factor and gonadosomatic index. These results will be useful for fish biologists and fishery management for suggesting adequate regulations for sustainable fishery management in Malaysian waters and nearby countries.